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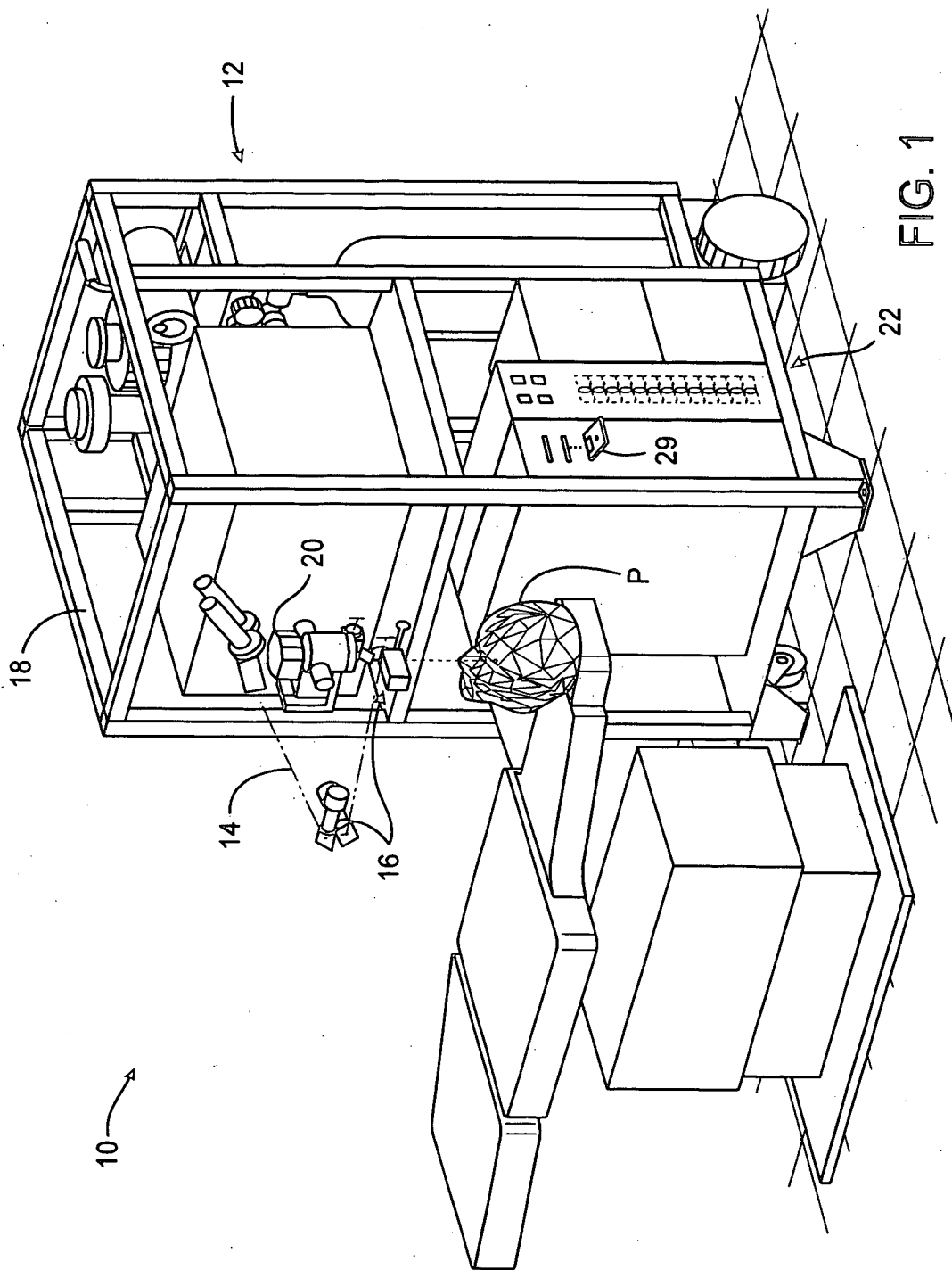
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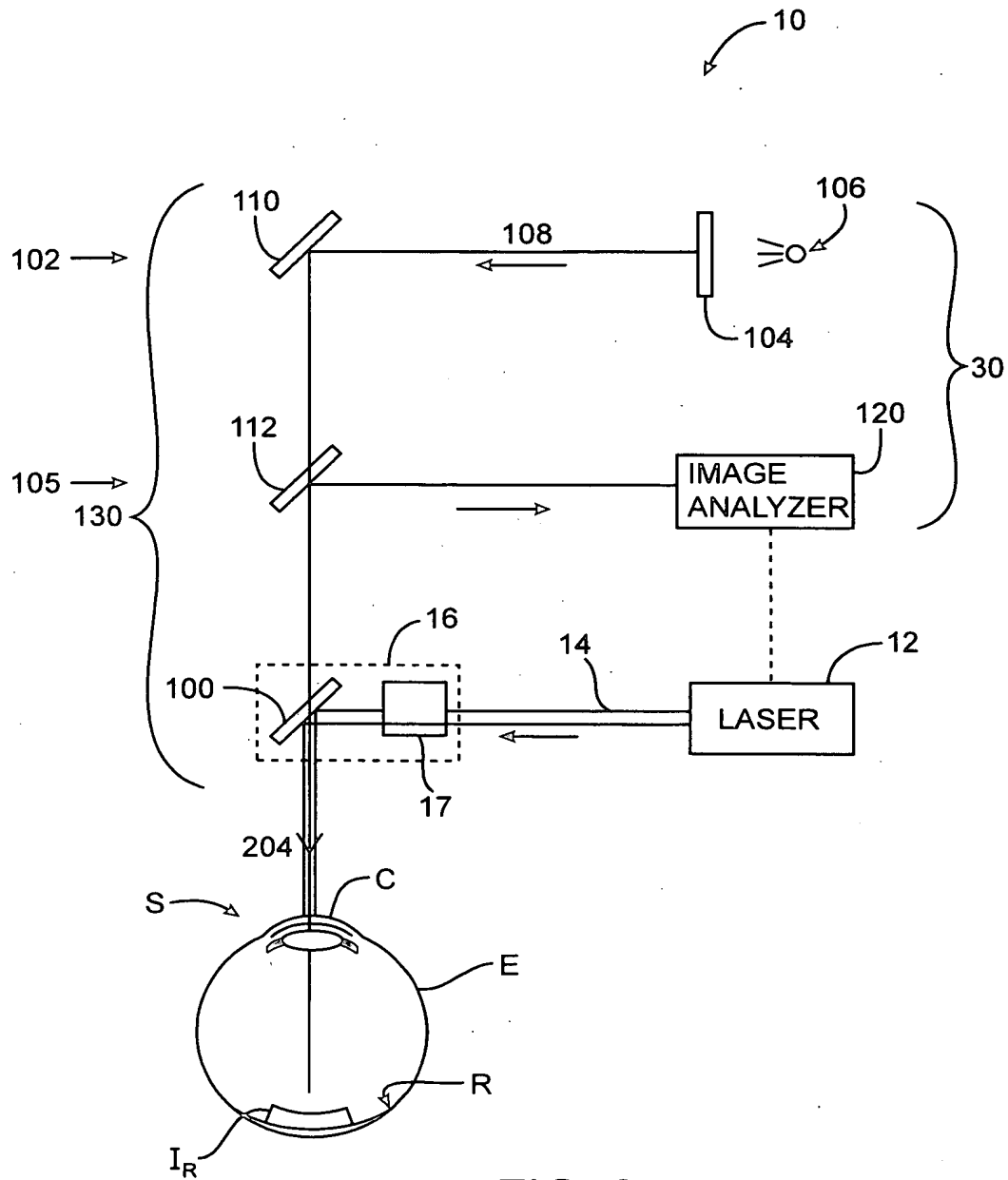
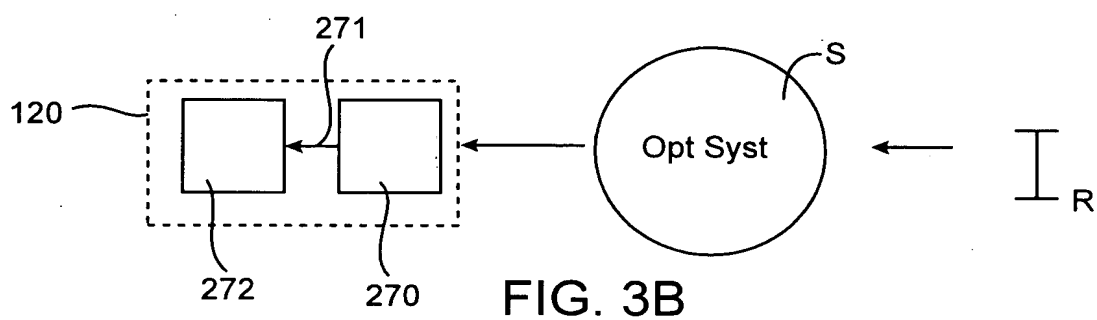
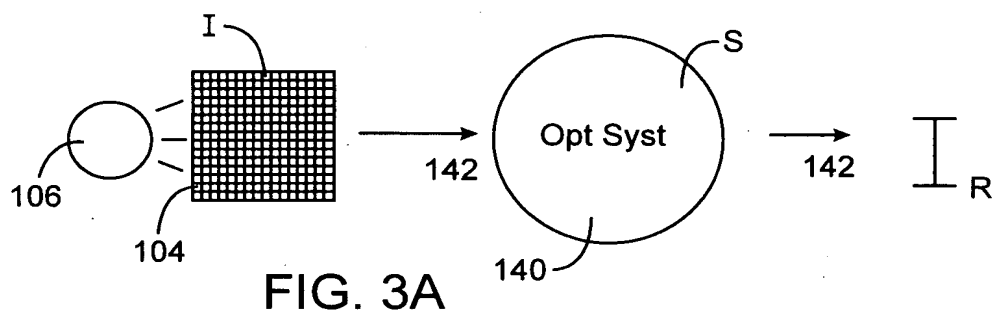


FIG. 2



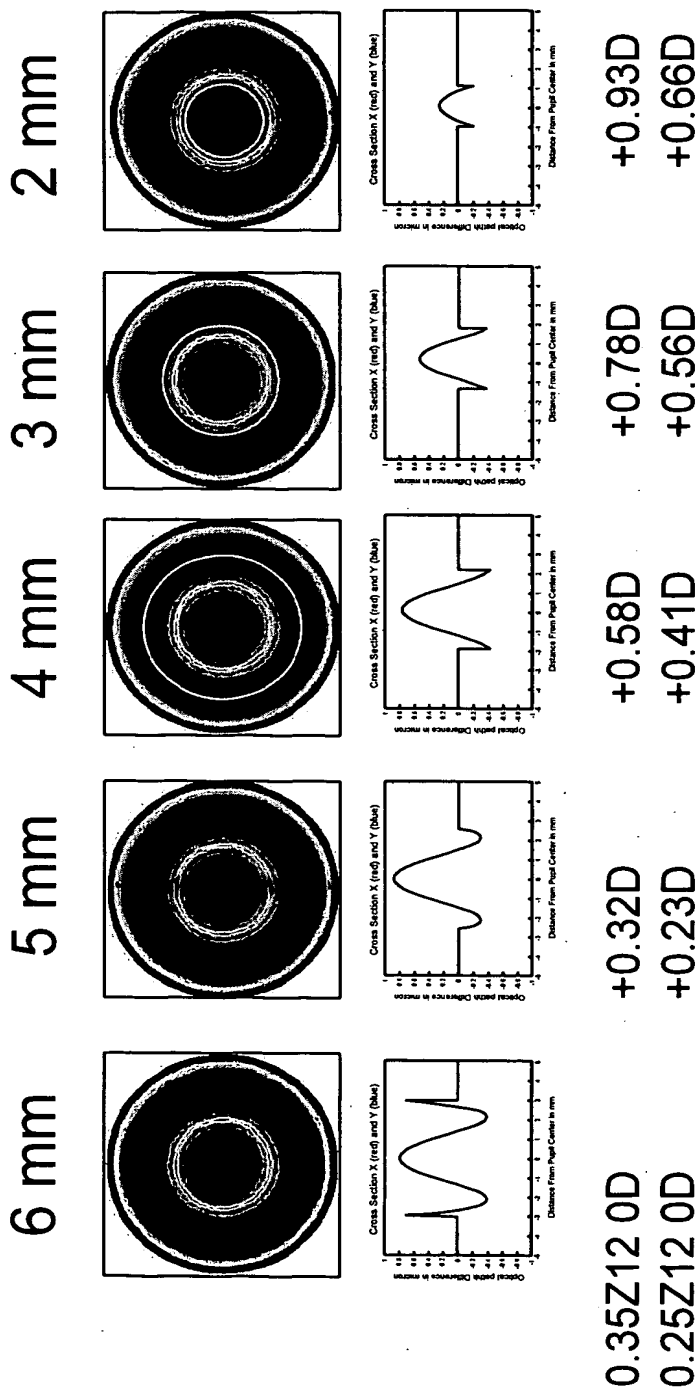


FIG. 4

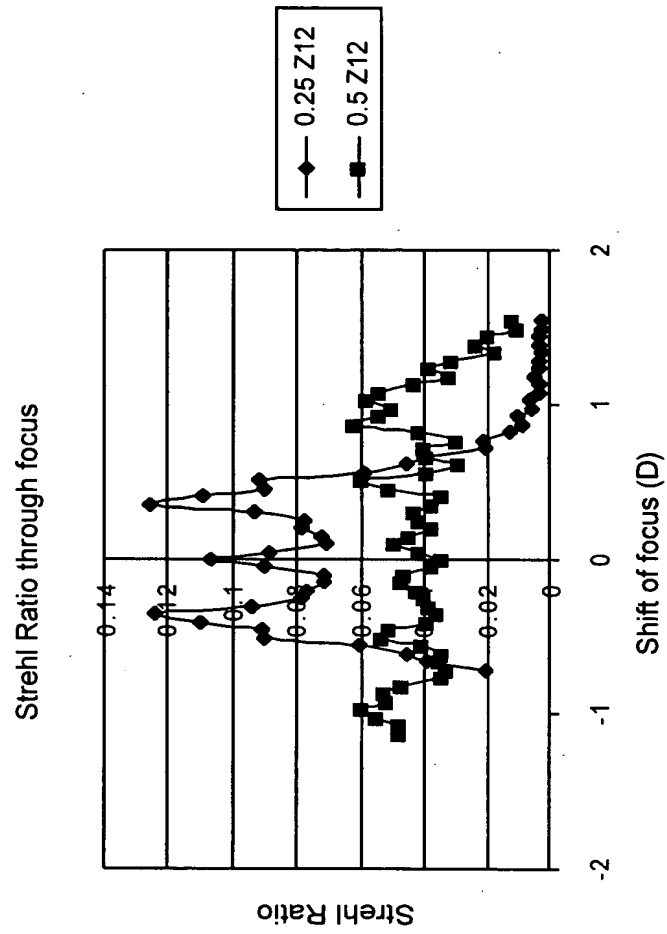


FIG. 5

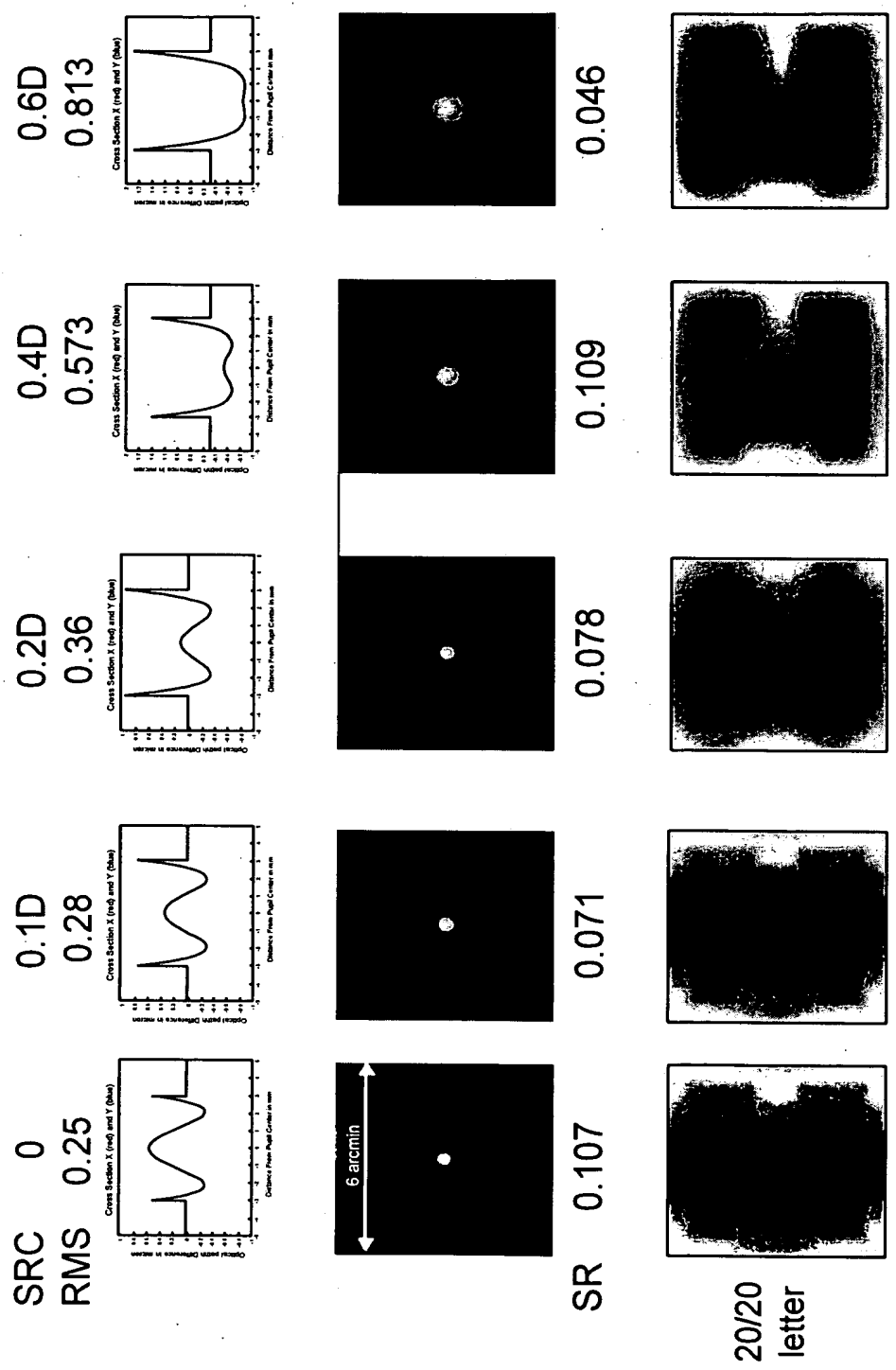


FIG. 6

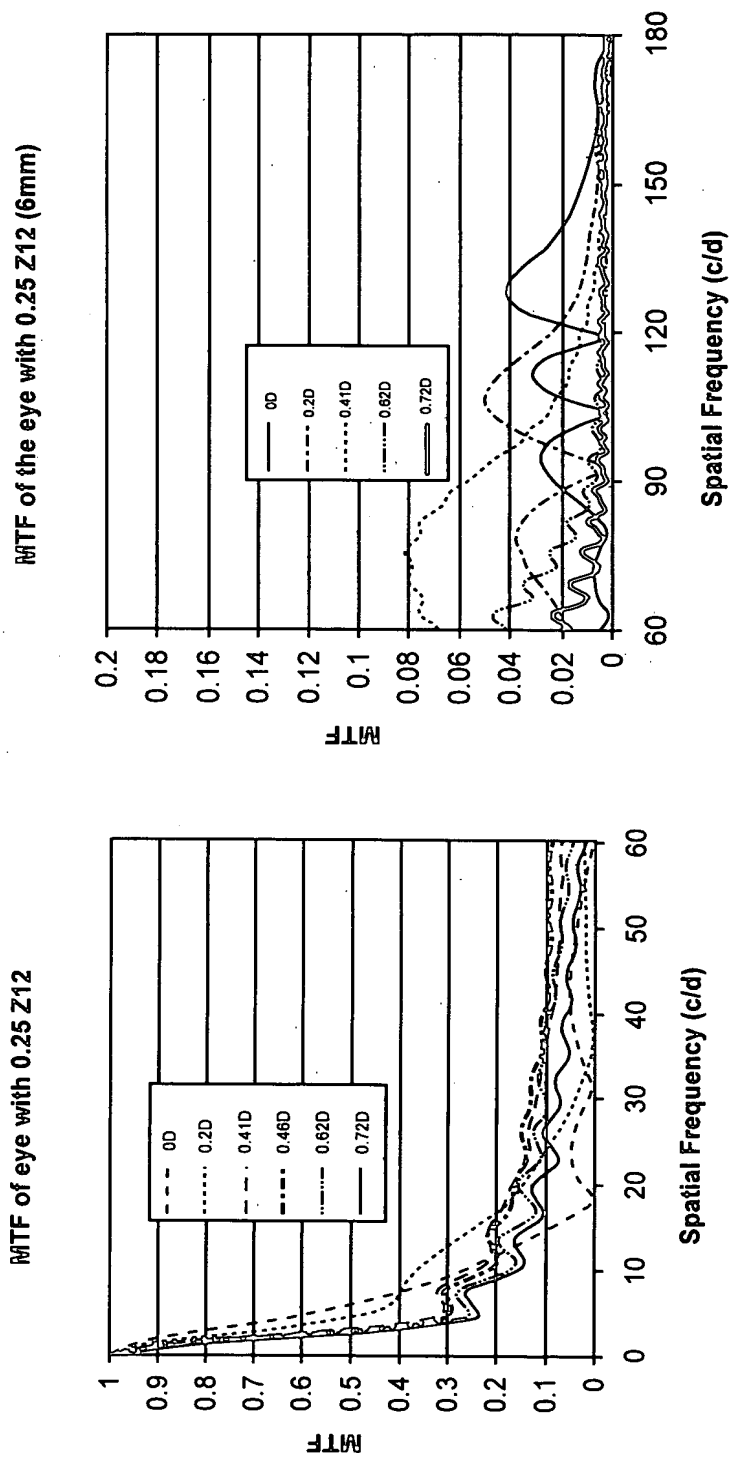


FIG. 7



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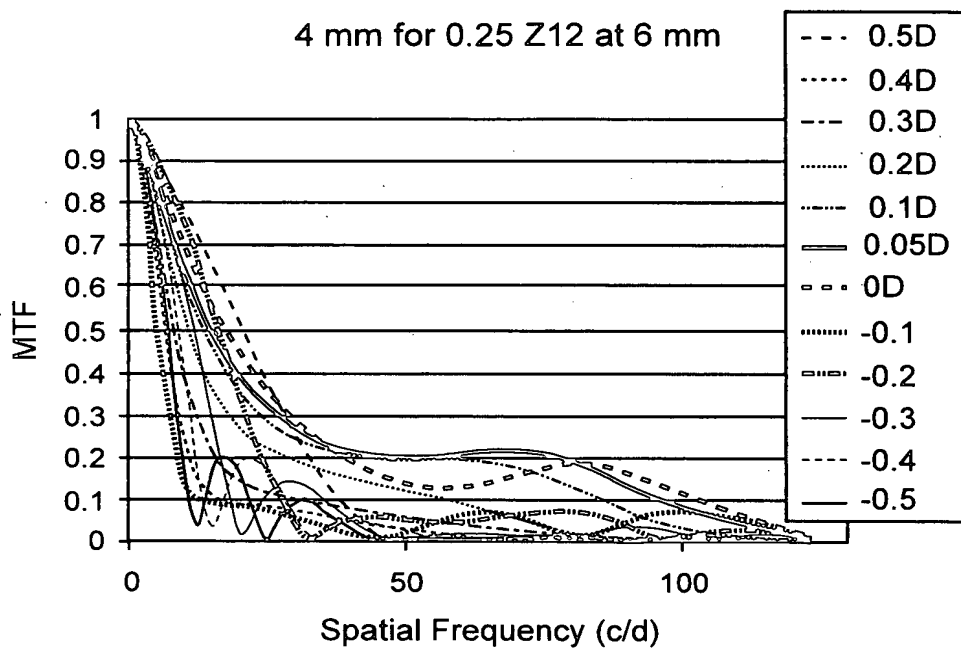


FIG. 8

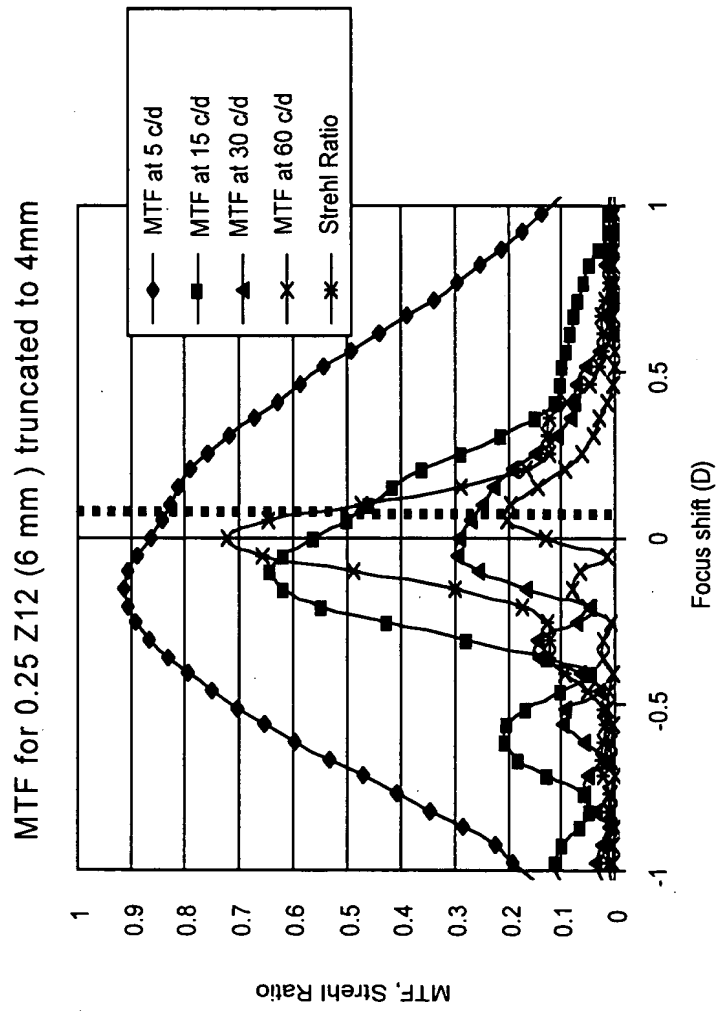


FIG. 9



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	Pupil size	spherical aberration	focus	focus shift	net focus
0.25 Z12	6.00	$3.35 \rho^4$ up to 6mm pupil	-0.74	0.46	-0.28
0.049 Z12	4.00	$3.35 \rho^4$ up to 4mm pupil	-0.34	0.05	-0.29

FIG. 10

c12 (6mm)	6 mm fit	4 mm fit	highest MTF at 60 c/d for a 6 mm pupil	highest MTF at 60 c/d for a 4 mm pupil	difference
-0.7	2.09	0.92	0.59	0.52	0.07
-0.5	1.49	0.66	0.49	0.41	0.08
-0.25	0.745	0.335	0.285	0.285	0
0	0	0	0	0	0
0.25	-0.745	-0.335	-0.285	-0.285	0
0.5	-1.49	-0.66	-0.49	-0.41	-0.08
0.75	-2.09	-0.92	-0.59	-0.42	-0.17

FIG. 11

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